

Automatic water vapor density control of hydrogen gas

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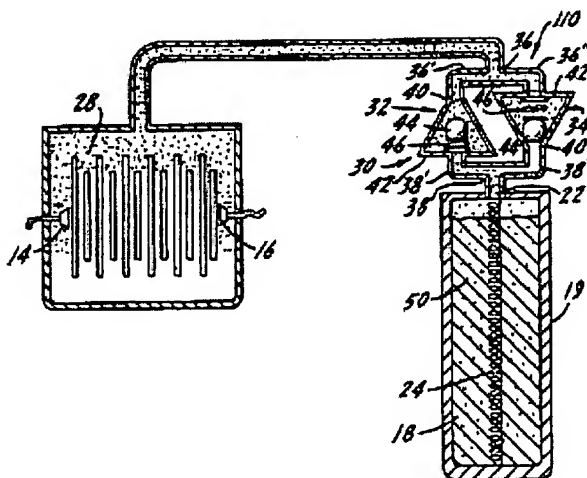
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Abstract of US6042960

An apparatus for and method of isolating an enclosed metal hydride container from an apparatus which uses hydrogen gas during periods of dormant or inactive storage of the device, including a constricted opening having a dual one way check valve arrangement to selectively open or close the hydrogen gas communication between the hydrogen storage container and the apparatus using the hydrogen. The dual check valve arrangement provides for constricting hydrogen gas flow between the chambers unless the device is in the process of charging or discharging, either of which process causes a differential pressure to develop across the dual check valve arrangement which is greater than a predetermined threshold pressure, e.g., 1-2 p.s.i. The hydrogen storage material within the hydrogen storage container comprises mixture of metal hydride particles with interspersed water adsorbing particles, such as silica gel desiccant.



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